

IN THE SPECIFICATION:

Please replace the paragraph on page 1, lines 5-7, with the following rewritten paragraph:

TECHNICAL FIELD:

a1 The present invention relates to a method and an apparatus for controlling access to the contents of web pages by using mobile security modules and in particular chip cards.

Please replace the paragraph on page 1, line 8, to page 2, line 5, with the following rewritten paragraph:

BACKGROUND OF THE INVENTION:

a2 The internet, i.e. the World Wide Web, has become a new information-disseminating and business medium. The increasing commercialization of the internet is constantly giving rise to ideas for new types of business which can be transacted over the internet. Even today, the internet user can perform virtually all the commercial transactions involved in ordinary everyday life over the internet. In the business world too the internet has become an indispensable tool. Companies use the internet both for developing and for marketing their products.

Please replace the paragraph on page 5, lines 8-10, with the following rewritten paragraph:

SUMMARY OF THE INVENTION:

a3 The object of the present invention is to provide a method and an apparatus which avoid the disadvantages, as outlined above, of the prior art for achieving authentication between client and server.

Please replace the paragraph on page 5, lines 11-13, with the following rewritten paragraph:

a4 This object is ~~and other achieved by means of the features described in claims 1, 15, 17, 18, and 20.~~ ~~Other advantageous embodiments of the present invention are described in the subclaims instant claims.~~ *don't make sense*

Please replace the paragraph on page 5, line 19, to page 6, line 4, with the following rewritten paragraph:

BRIEF DESCRIPTION OF THE DRAWINGS:

as  
The present invention will be described by reference to a preferred embodiment and to the drawings, in which:

Fig. 1 shows the components on which the present invention is based, and

Fig. 2 shows the method according to the invention for authentication and access control.

Please replace the paragraph on page 6, lines 5-20, with the following rewritten paragraph:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS:

a<sup>6</sup>  
Fig. 1 shows the components for implementing the present invention. Installed on the client side there are a data-processing unit with a browser, a card reader and a mobile security module, e.g. a chip card. The browser is capable of displaying HTML pages and of running applets in its virtual machine (JVM = Java virtual machine). Applets are programs written in the Java programming language which are downloaded from the web server together with the web page. The function which the applets perform is to communicate with the chip card, e.g. by using APDU's (= application protocol data units). To communicate with the card, the applet requires a program library. This is necessary because communication is not one of the browser's standard functions. The chip card needs to be capable of calculating a cryptographic checksum or generating a digital signature by means of a key. The key is located in a protected area of the chip card. In addition to this, the individual number of the card is preferably also stored on it.